



BADGER STATE Smoke Signals



Serving Amateur Radio in Wisconsin

Published Monthly Since 1969

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FCC INQUIRY FOR ATIS SYSTEMS

- From The ARRL Letter -

The Federal Communications Commission, in General Docket 86-337, has proposed establishing an automatic transmitter identification system (ATIS) signal on all satellite video uplinks and asked for comments in a Notice of Inquiry on an ATIS system for all services and radio transmitters.

ATIS is a unique, unchangeable identifying number assigned to each transmitter at the time of manufacture, plus some correlation of the number to a data base identifying the licensee. This signature is automatically added to the unit's transmission and provides positive identification of each radiated signal.

The Commission commented that almost all "voice system" users wanted identification alternatives to their assigned call signs, and a review of rulemakings over the past decade "discloses a constant chipping away of the basic identification rules based on unique circumstances, undue hardship, and lack of interference considerations. The dilution has been substantial, but indeed necessary."

An ATIS system could take the place of all existing voice identification requirements, and the Commission believes that it will meet the provisions of the ITU regulations and will not pose any international difficulties.

The Commission said that an ATIS system would not only be able to help its enforcement efforts, but also discourage potential violators from operating outside their authorized fre-

quencies. "For example, synthesized multi-channel transceivers make it so easy to select a new frequency that some owners of the equipment are tempted to, and do, operate on unauthorized channels to the detriment of others." If synthesized transceivers were equipped with ATIS, the operator would have an incentive not to misuse the built-in channel flexibility since his identity would immediately be known.

The Commission asks the following questions in its inquiry:

In what services would ATIS be beneficial?

Should it be imposed on all services?

Since the costs and benefits might vary from service to service, comments are requested on the incentives facing licensees in various services and the costs and benefits of various methods of implementing some form of ATIS in some or all services, technical standards and the use of identification codes.

Could ATIS be mandatory in some services and voluntary in others? For example, ATIS may be valuable in the Marine and Aviation services, but unnecessary or impractical in the various Industrial Radio Services.

Would ATIS be practical for a service such as the Amateur Radio Service where there is no equipment authorization requirement or the equipment may even be home-made? The Commission suggests that all new

(Continued on page 6)

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SWAPFESTS AND OTHER SOCIAL EVENTS

Saturday October 11, 1986. The 37th ANNUAL GROUND HOG PARTY will be held at Watertown, WI. Registration 3:00 p.m. with dinner at 6:00 p.m. \$7.00 per plate, family style Swiss Steak. Reservation deadline, Midnight, October 8, 1986. Reservations in advance are a must. Send reservations to Theron (Teen) Norbury, W9LB, Route 1, Box 153, Watertown, WI 53094. Phone (414) 261-0637.

Sunday October 12, 1986 -- The Kettle Moraine Radio Amateurs (KMRA) Swapfest in Waukesha, WI., at the Waukesha County Exposition Center (Hwys. FT & J). Amateur Radio & Computer Dealers, Food & Beverages, Prizes, Amateur Radio Examinations and Free Parking. \$2.50 in advance, or \$3.00 at the door. Tables, \$3.00 per four-foot table. Register early. We always sell out the tables on the main floor before the swapfest begins. Door registration tables are on the upper level. KMRA, P.O. Box 411, Waukesha, WI 53187.

October 18-19. ARRL Central Division Convention, St. Charles, ILL. More about this event on page 9.

Minnesota (Richfield) - November 1: The Second Annual "Hamfest Minnesota and Computer Expo", sponsored by the Twin City FM Club, will be held at Richfield High School, 7001 Harriet Ave., S., from 7:30 am to 3:00 pm. Admission is \$3.00 in advance, \$4.00 at the door. Special guest speaker, Wayne Green, W2NSD. Two hour DX seminar, FCC exams, expanded indoor flea market, commercial booths, food, door prizes; ARRL, AMSAT, and

computer seminars, and much more. Talk-in on 16/76. For more information or advanced registration, send a self-addressed, stamped envelope to: HAMFEST MINNESOTA AND COMPUTER EXPO, Box 55, Minneapolis, MN 55440.

The Milwaukee Repeater Club is proud to sponsor the 2nd annual "6.91 FRIENDLY FEST" on Saturday, November 15, 1986; 8:00 a.m. to 1:00 p.m. (Sellers admitted at 7:00 a.m. at the Eagle's Club, 24th & Wisconsin Ave., Milwaukee, WI. Gather up your swapfest bargains and partake of that famous Milwaukee food, & beverages (including beer). Tickets are just \$3.00. Four foot tables for \$4.00. To save \$1.00 per ticket or table, send SASE with payment to The Milwaukee Repeater Club, P.O. Box 2123, Milwaukee, WI 53201 before November 8, 1986. Talk-in 146.91- and 146.52 Advance info is available from the above address.

Rockford Hamfest, Computer Fair and ARRL Illinois State Convention will be held on November 16, 1986, at Rockford, IL. Contact Gary Hilker, K9LJN, 804 Otto Road, Rockford, IL 61111 (815) 654-3282

Saturday, January 10, 1987. The 15th Annual Midwinter Swapfest, sponsored by the West Allis Radio Amateur Club, will be held at the Waukesha Co. Exposition Center Forum, Highways J & FT, Waukesha Wisconsin. WARRAC Swapfest, P.O. Box 1072, Milwaukee, WI 53201. A flyer with map and more information will be included with next months BSSS. Support this BSSS Booster.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas.

Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages, and/or we can include your flyers. For information on rates and requirements for our advertising pages, and/or for including flyers, please contact K9ZZ or K9EN.

CLUB MEETINGS:Badger Amateur Radio Society

(W9YT - University of Wisconsin - Madison)

Regular monthly meetings are held at 7:30 PM on the 2nd Wednesday of every month while school is in session, in B314 Electrical Engineering Building.

Central Wisconsin Radio Amateurs, Ltd. (Stevens Point)

Regular club meetings are held on the second Wednesday of the month.

Eau Claire A.R.C.

The Eau Claire Amateur Radio Club meets every second Tuesday of the month. Hams and guests are welcome.

Four Lakes A.R.C. (Madison WI)

RED CROSS BUILDING, 4860 Sheboygan Ave, Madison, WI., first and third Tuesday each month.

Fox Cities Amateur Radio Club

Regular meetings a 7pm, the third Monday of the month at Roosevelt Jr. High School, 318 E. Brewster St., Appleton, WI 54911. 424-735-6294 for info.

Green Fox Amateur Radio Club

Meetings are held the third Monday of the month at 7:30 p.m. at the Green Lake Town Hall located at the intersection of county highways K and N.

Kettle Moraine Radio Amateurs:

All meetings are held on the SECOND (2nd) Friday of each month.

Manitowoc County Radio Amateurs

MANCORGAD meets on the third Wednesday of each month at 7:30 p.m. at Manitowoc Red Cross Bldg, 20th and Washington Streets in Manitowoc WI.

Milwaukee Radio Amateurs Club:

All regular meetings of MRAC scheduled for 1986 at Wauwatosa Savings and Loan Building, 7500 West State Street, will be held on the second Thursday of the month.

Ozaukee Radio Club

Meetings held every second Wednesday at 7:30 p.m. in the Saukville Community Center

OCWA

Fall Dinner meeting, Saturday October 18, 1986. Downtowner Motel, 321 S. Washington St., Green Bay, WI. 11:00 a.m. - registration. 12:00 noon - Family style dinner of chicken & roast beef. Reservation to Richard Regent, K9GDF, 5003 S. 26th St., Milwaukee, WI 53221.

Riverland Amateur Radio Club

Regular meetings are held at 7:30 P.M., on the first Wednesday of each month in the Onalaska Community Center in Onalaska, WI.

South Milwaukee Amateur Radio Club

Meetings held at Legion Post 434, Shepard Ave., Oak Creek, on first Wednesday of the month. Auctions held at March and October meetings.

West Allis Radio Amateurs Club

Regular meetings are held on the second Tuesday of each month at St. Francis Savings, 9330 W. Greenfield Ave., at 8:00 P.M.

The Wisconsin Valley Radio Association. (Wausau)

Holds regular monthly meetings on the first Tuesday of the month at 7:30 p.m. The location varies, but information is available on the 146.04/64 repeater in Wausau.

Yellow Thunder Amateur Radio Club:

(Baraboo, WI)

All regular meetings of YTARC are at the Baraboo Civic Center. Meetings start at 7:30 P.M.

The meeting dates for 1986 are: Oct. 14, in room 25, Nov. 12, in room 29, & Dec. 11 in room 29.

Let us know of your club meeting dates, and we will let others know of your meetings and activities. There may be Amateurs in your area interested in joining your club, or members of other clubs interested in making an interclub visit.

THE TEST POINT

The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area.

October 12, 1986	Waukesha, WI (KMRA Swapfest)
October 18, 1986	Milwaukee, WI
October 19, 1986	Minneapolis, MN
November 1, 1986	Stevens Point, WI
November 15, 1986	Waukesha, WI
November 15, 1986	Robbinsdale, MN
December 10, 1986	Milwaukee, WI
December 13, 1986	St. Paul, MN
December 20, 1986	Waukesha, WI
Third Sat. Monthly	Loves Park, IL

General rules for all examinations:

All examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs may permit walkins. Check with sponsor to find out if they allow walkins.)

To register for these examinations, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from the FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 22¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group. Remember-- you must file at least 30 days in advance unless otherwise indicated.

ARRL/VEC examinations require a check for \$4.25 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. As in the past, a copy of your license must be attached to your FCC form 610.

Additional information is given below.

MILWAUKEE METRO AREA TEST TEAM - MRAC VEC

Saturday, October 18, 1986 at 9:00 a.m.
Wednesday, December 10, 1986 at 7:00 p.m.

These tests are scheduled to be given in room 256, Wauwatosa East High School at 74th and Milwaukee Ave. Use the East (74th St.) entrance.

Register in advance on a Postal System post card mailed to The Milwaukee Radio Amateurs' Club, Inc., N50 W16329 Pin Oak Court., Menomonee Falls, WI 53051.

MILWAUKEE VOLUNTEER CORE GROUP - DE VRY VEC

The Milwaukee Volunteer Core Group will be giving Amateur Radio exams as follows:

October 12, 1986 - At KMRA Swapfest at Waukesha County Expo Center

November 15 and December 20, 1986 - In rooms 50208 and 50209 at Waukesha County Technical Institute.

Walkins are welcome at all exam sites. Free coffee served only at WCTI. Exams start at 9:00 a.m. Exam fee is \$4.00. Novice thru Extra exams are available in Braille, large type, and on cassette tape for the visually impaired. Please bring your current Amateur license.

If you are interested, please send a post card with your name, address, phone number, date of test session, and the grade of license you wish to achieve. Send the card to Syl Janczak, WD9JKZ, 3127A West Madison, Milwaukee WI 53215.

Exams for shutins by appointment only.

November 1, 1986 Stevens Point, WI

Central Wisconsin Radio Amateurs, Ltd. - (ARRL/VEC)

Contact: Joe Larson N9JW
644 Portage Street
Stevens Point WI 54401

Third Saturday of every month.

Northern Illinois Volunteer Examiners (DeVry VEC).
Held at North Suburban Library on North Second Street,
in Loves Park, IL.

Contact:
Gene Melton, AK9N
124 S. Chicago Ave. #2
Rockford, IL
(815) 229-7249

Minnesota tests - contact information:

Gopher/Minneapolis ARC:	Robbinsdale ARC:
Fred Hird	Neil McMillan
4716 Emerson Ave. S.	11132 97th Place
Minneapolis, MN 55409	Minneapolis, MN 55369
824-7702	(424-6248)

St. Paul ARC:
Jay Bellows
997 Portland Ave.
St. Paul, MN 55104
222-7253 (home) - 291-8015 (work)

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules.

Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN or K9ZZ at the address shown on page 2.

When you feel dog-tired at night it may be because you growled all day.

MISCELLANEOUS MISCELLANEOUS MISCELLANEOUS MISCELLANEOUS
Oh what the heck -- items of interest:

Four Lakes ARC. THE FEEDLINE

Summer is winding down and fall is just around the corner. Soon it will be cold enough to tingle the fingers and time to get the planned antenna work done. Seriously, the next couple of months are the best as far as weather is concerned to complete those antenna projects. Don't wait like I too often do for really cruddy weather.

We're roughly at the bottom of the cycle now and only have one way to go, so the bands should start to pick up in the next 12 months or so. I understand from those who have been through several of these sunspot cycles that the bands pick up fairly quickly and then go down at a much slower rate.

We (NF9S, W9ADN, NB9C, N9EJL, and KW9W) finally got Eldon's (KN9X) tower and TH7 tribander operational. Initial reports indicate everything is working super.

--NF9S

Madison Area Repeater Association MARA NEWSLETTER

The biggest news of the month is the WB9AER is now on the Tenny Building site! Has anybody noticed the new I.D.? It says WB8AER/R/Tenny Bldg.

We have, however, discovered that 16-76 is definitely not the channel for the best repeater use. The repeater is now on 147.75 (transmit) - 147.15 (receive) to get away from the interference present on 16-76.

West Allis Radio Amateur Club, Inc. HAMTRIX

The date for this year's annual award dinner is Sunday, November 16 at Kuglich's 16000 W. Cleveland Ave.

HAM OPERATORS PSALM

(From Linear Lines, Summerville SC, KB4RDI Ed.)
(by W4ZYI) - (via ARMS)

Amateur radio is my hobby, I shall not be bored,
It maketh me do research in far places.
It causeth me to talk with strange people.
It keepeth me up at night and alert for that elusive DX.

It leadeth me into areas of understanding for curiosity's sake.

Yea, though I walk through the valley of rare DX, I fear no boredom for my QSOs are with me.

An operators position is prepared for me at South Carolina Field Day,

I will fear not, for my point score goes up.

They provide me a means of escaping from the tensions of my responsibilities.

It filleth my shack with QSL cards, My cash runneth lower and lower.

Surely interest and knowledge shall follow me all the days of my life.

And I shall be listed in the ranks of long ragchewers forever..



EAU CLAIRE A.R.C.

NEXT MEETING

The next meeting of the Eau Claire Amateur Radio Club will be held on Tuesday October 14th at the Eau Claire Parks Rec. Bldg. located at Oxford and First Streets. The meeting begins at 7:30PM.

LUNCH COMMITTEE

Lunch committee for the September meeting is BILL-KA9GNS, ROBIN-NI9R and Liz-N9EQR.

OCTOBER MEETING SUMMARY

The meeting was opened at 7:30 PM by Pres. Yost KD9OB. The Minutes of the last meeting were approved as read as was the Treasurers report.

OLD BUSINESS

W9WRM, Tommy, special event coordinator gave a report on the special olympic run sponsored by the Eau Claire Leader Telegram newspaper. This was a special event with the proceeds going to the handicapped. It consisted of one 2-mile race and a 5-mile race. Those participating were Tommy-W9WRM, Lane-KD9OB, Oscar-KD9MP, Steve-KD9YO and Darrell-W9FLK. Tommy-W9WRM, would appreciate more volunteers for such future events. We are reminded to ask our selves the question that since our club is public service minded shouldn't we volunteer as often as we can.

Todd-N9EQP reported on the status of the packet repeater. Since nothing new has happened or been done it was left to die.

Tommy-W9WRM reported that the club picnic was a success. Not quite as many participated as last year, however a good time was had by all. The food was plentiful, however we could use more spoons. So says Harry-W9FYI.

He asked that more spoons be purchased for next years picnic and the club voted to purchase some. Tommy-W9WRM, thanked Jones-W9CRO, for getting out to the park early (before daylight) to reserve the tables for the picnic.

He also thanked Lisa-KA9RII and others for helping make it a success.

Don-K9UXP reported that Paul-W9FAC wanted to get the old repeater out of his garage. The club paid \$20.00 for it and wants to get rid of it now.

Ed-K9F16 offered \$5.00 for it and became the proud owner of his own repeater that he plans on putting up between Durand and Mondovi.

Lisa-KA9RII reported on the mall project to be held on October 25 & 26 at the London Square Mall. This is another club event to bring ham radio out for the people to see. Lane-KD9OB reminded the members present of our responsibility to the public as a volunteer public service group. Lisa needs help, volunteers, without this help the event cannot be held or be successful. Lets all pitch in and prove to the public

that as a club these events are possible and could be successful.

NEW BUSINESS

Jim-KD9XE, reported on the Night Tango operation that involved Army, Navy, & Air Force MARS along with Civil Air Patrol and the ARRL. The exercise lasted from 6pm to 12pm and had each participant handling three messages.

It was interesting to note that Robin-NI9R had her key fall apart as she was passing a message and finished passing the message by using the ends of the cable going to the key. Wisconsin succeeded in passing all the messages in all the services.

John-KA9RZL has a new slow speed code net going on 21.150 Mhz on Tuesday and Friday at 8:00PM. John said he would take traffic but it might not go far, as so far there has only been two check-ins. Help John out and brush off the key and clean out the cobwebs upstairs while having a good time.

Carl-W9NW, reports that his novice class will resume on Monday nights and that exams for those wishing to upgrade will be held on October 18 at the

U.W. Eau Claire maintaince building next to District one Technical Inst..

Ron-KA9VKG, will conduct code practice on Tuesday evenings from 7PM to 9PM at his home at 2315 Cornell St. in Eau Claire.

Don-K9UXP and Bob-W9BAR will look into complaints about the repeater auto patch being brought up by voice.

Rich Regent, K9GDF of Milwaukee, ARRL Section Manager, was our guest speaker and gave a very complete and informative update of ARRL activities. And covered all the materials, awards and services available to Amateur radio operators. He also pointed out that our club has complied with all activities that an Amateur Radio club should.

The highlight of the evening was when Rich-K9GDF, presented Carl-W9NW with an award for his years of service to the Amateur community through his novice classes and individual help on code & theory. A great many club members are now Hams due to Carl's patience, enthusiasm and more patience.

Remember your club/repeater fees are due by January 1, 1987. Re-read the new fees schedule that appeared in the last newsletter.

The meeting adjourned at 8:15 PM, and was followed again by much coffee, cookies and conversation.

Respectfully submitted - W9FLK-Darold Secretary

AUTOMATIC TRANSMITTER ID SYSTEMS

(Continued from cover)

Amateur transmitters contain an ATIS identification system as of January 1, 1993.

Would it be feasible to permit stations to ignore normal call-sign requirements if those stations employed ATIS? Would this work in some services, such as Broadcast Auxiliary, but not others? Would this be confusing, or would it provide sufficient incentive for all stations to eventually install ATIS?

Should the code be tamperproof from the station operator? How could it be made tamperproof?

The Commission also asks a number of technical questions concerning ATIS, as to what type of system should be selected with such specifics as the type of keying rate, code system to be used, error checking, and a time schedule for implementation.

The date of filing comments is October 20, 1986, and the Commission noted in its inquiry it was willing to extend the period if requested.

This is not the first time the ATIS concept has been raised. Back in 1975, at the time of the CB boom, FCC raised the matter in Docket 20351, but the proceeding did not result in rules being adopted.

The ARRL will file comments opposing ATIS. See below.

ARRL EXECUTIVE COMMITTEE MEETS

The Executive Committee of the ARRL Board of Directors met in St. Louis, Missouri, on August 23. Here are the highlights; the full minutes will appear in October QST.

Regulatory

The Committee considered General Docket 86-337, a Notice of Proposed Rulemaking and Notice of Inquiry in the matter of an Automatic Transmitter Identification System (ATIS). After discussion, the ARRL Counsel was directed to file comments opposing ATIS as inappropriate in the Amateur Radio Service.

The Committee directed the Counsel to file a petition for reconsideration and stay of the effective date in PR Docket 85-196, the Report and Order transferring responsibility for maintenance of the examination question pools from the Commission to the VECs. This step would preserve the right of ARRL to appeal to the US courts if the

the Board of Directors feel it necessary. The Committee strongly felt that the adopted rules were not specific regarding the difficulty of the respective written examination elements. This creates a likelihood that Amateur exams will, over time, drift away from the standardization that the FCC itself acknowledges is essential to the examination program.

The Counsel also was directed to file comments in General Docket 85-301, opposing any relaxation of standards for terminal devices connected to cable television systems, and to file comments on the US Environmental Protection Agency's proposal to control public exposure to RF radiation based on the recommendations being developed by the ARRL Committee on the Biological Effects of RF energy.

The ARRL will write the FCC to request information concerning the new FCC policy under which Amateurs may be placed on "reduced power hours" in cases where RFI has been reported. The letter will ask the Commission specifically about the regulatory foundation for the new policy.

Director and Vice-Director Elections

The Committee found the following Director and Vice-Director candidates to be nominated lawfully and eligible. They ordered ballots to be sent to full members of the ARRL in the Divisions where there are two or more candidates (Central Division candidates only are shown here):

Director: James J. Coleman KA6A
Edmond A. Metzger W9PRN
Bruce B. Woodward W9UMH

Vice-Director: Kenneth A. Ebnetter K9EN
Howard S. Huntington K9KM

Other

The Committee requested the Volunteer Resources Committee to study making ARRL standard call sign badges in distinctive colors available for those members of ARRL's volunteer force not presently eligible, such as QSL Bureau Managers and sorters, Technical Advisors, Volunteer Examiners and Volunteer Counsels.

Lastly, the Committee passed a resolution honoring Andy Clark, W4IYT, retiring editor and publisher of Florida Skip, for his contributions to Amateur Radio in that state, and resolved that a plaque be presented to him at some future time. ■

PROPAGATION PREDICTIONS



BY *Woody Minar* K9EF

13508 Tabscott Drive, Chantilly, Va. 22021

August, 1986 was the worst month for good propagation in the present solar sunspot cycle. The solar radio flux averaged 68 and the Ap index averaged 13. Although too early to predict, the solar flux and Ap trends are that September will be much worse than August.

According to the monthly mean sunspot numbers through July, 1986, the present solar sunspot cycle has entered the minimum phase. The June, 1986 sunspot value, which was less than one (1), was the lowest since 1954. Quarterly sunspot averages observed at Boulder, Colorado from January 1985 to August 1986 show the cycle decline numerically:

1985	1st Qtr	22	(Avg sunspot Number)
	2nd Qtr	29	
	3rd Qtr	19	
	4th Qtr	17	
1986	1st Qtr	15	
	2nd Qtr	14	
	3rd Qtr	13	(Estimated)
	4th Qtr	12	(Predicted)

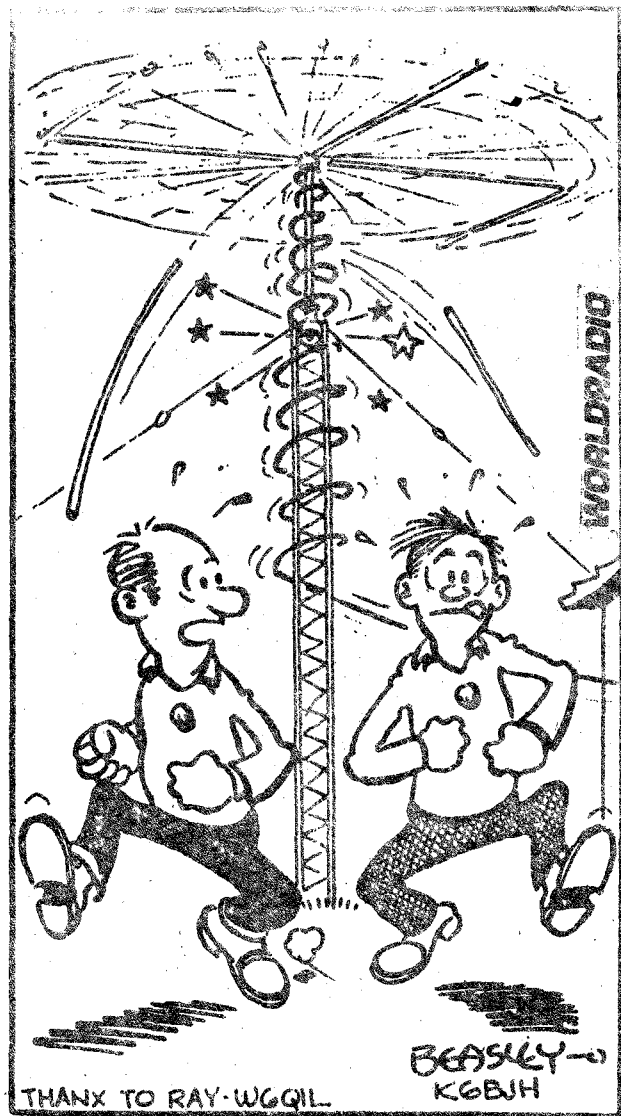
The chart below shows the mean sunspot number for each previous year:

1976 - 13	1980 - 154	1984 - 50
1977 - 32	1981 - 141	1985 - 32
1978 - 91	1982 - 114	1986 - 20
1979 - 149	1983 - 74	

Predictions: October 9-10, 22-23, and November 6-7 should be the prime days for better than average propagation. October 15-17 and November 12-14 should be excessively unsettled conditions where propagation is expected to be zilch. October 29-30 should be for trick or treating and not DXing, since propagation is not expected to be good.

73, Woody

We extend our sincere sympathy to Herb Jordan, W9LA, of Madison, on the recent death of his mother.

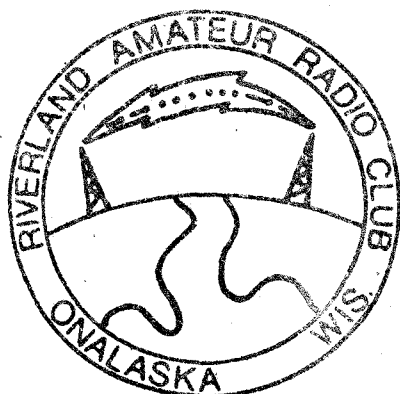


THIRD PARTY TRAFFIC FOR KOREAN GAMES OKAYED

On September 4, 1986, the FCC released the following information for U.S. Radio Amateurs. The Republic of Korea authorizes third party communication for athletes and staff of the Asian countries during the Asian Games in Korea September 6 to October 8, using the Korean Amateur Radio League stations 6K86AG and HL86A in the main stadium and the village for lodging.

Under ITU rules, such messages must be of a personal or technical nature, not sufficiently important to justify recourse to the public telecommunications system.

(From ARRL Bulletin NR 58, September 4, 1986)



On September 3, 1986, at 7:40 p.m., the regular monthly meeting of the Riverland Amateur Radio Club was called to order by Vice-President Rich Williams. The minutes of the August meeting were approved as read from the Badger State Smoke Signals. The Treasurer's report was approved.

"Ham of the Year" Committee Report: The committee came up with a list of qualities a person should possess that would be required to qualify for "Ham of the Year". This list was passed out to everyone present so each member could put their opinion on each category as to how important each should be. This material will be evaluated by the committee and a final report will be presented to the membership at the October meeting.

37/97 Report: The station has requested that we install our own telephone line at the station for the phone patch. A telephone has been purchased and will be installed after the meeting. Antennas have not been ordered yet; plans for installing and ordering new antennas will be taken care of in the next two weeks. It was also requested by the station that anyone visiting the station call ahead to get prior approval.

Old Business: Concerning the altering of our information sheet, it has been completed and copies will be made so the mailing of one to each member can be done prior to the January meeting.

New Business: Duane, W9HWQ, has volunteered to demonstrate a computer program for Packet Radio at a future meeting; October meeting is tentatively scheduled. Kent Helman, W9LZQ, would like to know if there is an interest in the Simulated Emergency Test exercises this fall; anyone who would like to participate should see Kent. Technical questions were asked and new members were introduced.

Program was film on a tornado that touched down north of Minneapolis.

Total members present was 27.

Meeting was adjourned at 8:15 p.m.

Respectfully submitted:

Greg A. Miller

<u>Name</u>	<u>Call</u>	<u>Member</u>
1. Greg A. Miller	KA9FOZ	Yes
2. Ron Reed	KD9OY	Yes
3. John Young	W9KAZ	Yes
4. Roger Reader	KA9BKK	Yes
5. Duane Fruechte	W9HWQ	Yes
6. Al Skurert	W9QHN	Yes
7. Ernie Gershon	K9ZVU	Yes
8. Hugh Barker	KA0EJZ	Yes
9. Art Osborn	W0JDC	Yes
10. Dick Low	K0JYB	Yes
11. Kent Helman	W9LZQ	Yes
12. Tom O'Brien	WB9BJQ	Yes
13. Jack Yoshizumi	W9KTD	Yes
14. Bill Winder	K9EGQ	Yes
15. Bruce Bjerstedt	K9CUT	Yes
16. Van Elston	WA9FIO	Yes
17. Gary Webb	NI9V	Yes
18. Ray Wakeen	WA9HHM	Yes
19. Craig Goldbeck	N9ETD	Yes
20. Rich Williams	KV9U	Yes
21. Rich Gilles	WB3KET	Yes
22. Julie Kish	KA9UJL	Yes

New Members

Julie Kish KA9UJL Rich Gillis WB3KET
3510 East Ave. S. 1619 Nakomis Ave.
La Crosse WI 54601 La Crosse WI 54603

LEAGUE SCORES AT MILWAUKEE APCO CONFERENCE

The 1986 Associated Public-Safety Communications Officers (APCO) National Conference was held at MECCA in Milwaukee on August 19 through 21. The League has a Memorandum of Understanding with APCO and was generously given a free booth at the exhibits.

The booth schedule was: August 19, 10 a.m. to 6 p.m., K9GDF; August 20, 10 a.m. to 4 p.m., N9EBJ and KA9TXT, and August 21, 10 a.m. to 1 p.m., N9EBJ, KA9MWT and K9GDF.

League presence was pleasantly accepted by the thousands of visitors who streamed by the booth. There were 132 Radio Amateurs who logged in during the three-day exhibit period and they were

asked to write their birthday (month and day) in the log so birthday messages can be sent during the next year to keep our traffic nets in shape.

An ample supply of dozens of different handouts were available to favorably promote the League and Amateur Radio (APCO exhibit rules prohibit direct sales or order taking activities within the exhibit area). We enjoyed ourselves just talking, shaking hands, and answering questions. Of the many questions answered for visitors at the ARRL booth, only a few required research and were later answered by mail.

Conveniently located adjacent to us was the FCC booth with FCC Engineer-in-Charge, Russell J. Monie, WBØPAW. He was very helpful to people we guided to him that had difficult questions about regulations.

Many visitors expressed hope that APCO and ARRL can continue to provide booths for each other in their future annual events to share and exchange information. This year was certainly a success. ■

ARRL CENTRAL DIVISION CONVENTION/HAMFEST

Sponsored by Fox River Radio League

October 18-19, 1986

Norris Sports Center, St. Charles, Illinois

Saturday Night Banquet at Pheasant Run
Resort with "special" guest speaker

ALL UNDER ONE ROOF

Commercial Exhibits and Sales - Flea Market
Technical Demonstrations - Volunteer Exams

Forums and Seminars: Jim O'Connell, W9WU:
Legal topics about Amateur Radio - Bob
Heil, K9EID: Microphones and equalization -
Barry Boothe, W9UCW: Antennas: Truth and
Myth - Ed Dobeck, N9RF: RFI - NIDXA:
Midwest DX Panel - Paul Rinaldo, W4RI:
Packet Radio - AMSAT - Leonard Nathanson,
W8RC: ARRL

Hours: Saturday: 10:00 a.m. to 4:00 p.m.

Sunday: 9:00 a.m. to 2:00 p.m.

Tickets: \$3.00 in advance, 4.00 at door.
Send SASE to Bill Heimann, KD9WE, 837
Lebanon St., Aurora IL 60505.

Commercial exhibits and flea market tables:
Contact George R. Isely, WD9GIG, 736
Fellows St., St. Charles IL 60174.

Banquet reservations: Send SASE to Frank
Christensen, WA9TRG, 1034 E. Benton St.,
Aurora IL 60505.

Talkin will be on 144.87/145.47 and 144.61/
145.21. ■



Balloting will soon be (or is) underway in the election for Director and Vice Director of the ARRL's Central Division (and some other Divisions as well).

I respectfully urge you to cast your ballot for Edmond Metzger, W9PRN, for Director, and for our own Kenneth A. Ebnetter, K9EN, for Vice Director.

Ed Metzger has done a very capable job as incumbent Director, and deserves to be reelected.

Ken Ebnetter, K9EN, has served two terms as Vice Director, and he also proved himself capable and qualified.

Both candidates meet the established criteria. When you receive your ARRL ballot in the mail, don't delay. Regardless of your preference of candidates (I hope it's the above two), mark your ballot and send it to ARRL. ■

PRIVACY ACT UPDATE

The Electronic Privacy Communications Act is now stalled in the Senate Judiciary Committee, awaiting attention after Congress returned September 9.

The Subcommittee on Patents, Copyrights and Trademarks had completed its markup of the bill and passed it to the full Committee prior to the recess. ■

(Thanx The ARRL Letter)

"Do you have
Something to sell?"



OUR WANT ADS GET RESULTS !"

FCC DISCUSSES POSSIBLE NEW CALL SIGN PROGRAM

FCC officials Michael Fitch, Deputy Chief, Private Radio Bureau, and Ray Kowalski, Chief, Special Services Division, discussed the Amateur Radio call sign program at the FCC Forum at the ARRL National Convention (held September 5-7 in San Diego CA).

The pair noted that the volunteer examination program was "working extremely well" and they felt that a "special call sign program" would perhaps work equally well.

This "special call sign program" would basically work this way: the FCC will continue to issue what it calls "routine first licensed" call signs only. Those are the 2X3 call signs presently assigned to each new Novice class licensee.

--An Amateur could continue to use this 2X3 call sign, no matter what class of license he held, for as long as he holds a license. There is no requirement for him ever to get another call.

--If an Amateur wants another call sign, he could go to the private sector where he could pay for another special call sign in his license class group. The Commission estimates that the cost of a call sign issued by the private sector will be \$20-30.

--The Commission has not decided just how many call signs an Amateur could be allowed to have.

--There should be a grace period at the beginning of the program where, for example, previously held call signs, or call signs of deceased family members, could be obtained by their previous owners or other licensed family members, respectively.

--The Commission will leave the details of the program up to the organization or organizations which will issue the call signs.

--This program must cost the FCC nothing.

Ray Kowalski concluded, "I am optimistic that, based on informal research and our close working relationship with ARRL, that we are in a position that we can go forward and give the Amateurs the call sign program they desire." Thanks The ARRL Letter.

ATTENTION 160-METER FANS

Please note the ARRL Midnight Special on 160 from 0500Z until 0700Z October 12. First hour, CW contacts only; second hour, phone. Exchange state and power output. For further information, see Contest Corral

on page 93 of October QST. (Thanks The ARRL Letter.)

CALLING ALL YOUNG ARTISTS

If you're an artist between the ages of 8 and 18 and have an interest in electronics, here's an opportunity you won't want to miss. The ARRL would like you to showcase your talent and originality in their national art contest. And, if your entry is one of the winners, your artwork will be forwarded to a worldwide contest for judging. The contest features awards along with the possibility of national and international recognition for you.

The ARRL is sponsoring a national art contest with the theme "Youth in Amateur Radio." It is a wide-open theme, which allows you to use your imagination in the following mediums: photographs, drawings, paintings and other illustrations (excluding written text). You choose the medium; all the ARRL asks is that no artwork be larger than 11 x 14 inches.

There are three age categories, and a first, second and third prize will be awarded for each one. They are: Group 1 - ages 8-12; Group 2 - ages 13-15; Group 3 - ages 16-18. Forthcoming issues of QST will announce winning entries and awards. Winning entries and other entries deemed appropriate will be forwarded to the "Youth in Electronics" contest being sponsored by the International Telecommunication Union, Geneva, Switzerland.

Every contest needs some rules:

* All entries must be received at ARRL HQ no later than February 1, 1987.

* Entrants must be League members or be sponsored by a League member. (If you don't know any members, write to ARRL for a list of possible sponsors).

* Each entry must be accompanied by a completed application form (available from ARRL).

* Each entry must be the original creation of the entrant.

* Entries become the property of ARRL and cannot be returned.

* Artwork must be no larger than 11 x 14 inches.

ARRL is looking for your impression of Amateur Radio - any way you see it. Send for an application today to American Radio Relay League, Dept Y, 225 Main Street, Newington CT 06111. Good luck in the contest!

(Thanks ARRL and K9GDF;
reprinted with permission)



WISCONSIN NETS ASSOCIATION

WISCONSIN NETS

NET	WNA	FREQ	UTC	CDT	MANAGER
BWN	YES	3984	1100Z	0600	WD9IID
BEN	YES	3985	1700Z	1200	KA9RII
WSBN	YES	3985	2230Z	1730	W9ESM
WNN	YES	3723	2300Z	1800	N9DGL
WSSN	YES	3645	2330Z	1830	W9DGL
WIN-E	YES	3662	0000Z	1900	W89ICH
WIN-L	YES	3662	0300	2200	KC9CJ
NMTN	YES	34/94	2330Z	1830	KD9VR
WCWTN	YES	31/91	2330Z	1830	KD9TT
GR.BAY	NO	72/12	0145Z	2045	W89NRK
		THU		WED	

CAND REPORT FOR AUGUST 1986 X 641 MESSAGES IN 31 SESSIONS X 99RN REPRESENTED 100 PERCENT X WISCONSIN STATIONS KA9RII N9DGL W9CBE X 73 - W5KLV NM

9RN CYCLE 4 AUGUST 1986 QNS 385 QTC 472 QTR 907 IN 62 SESSIONS WISCONSIN PARTICIPATION NINETY PERCENT STATIONS N9DGL W9CBE KC9CJ W9CXY W89ICH KA9RII K9UTQ AND W9YCV 73 - W9JUI NM

West Central Wisconsin Traffic Net (WCWTN)

Dr. Thomas W. King, KD9TT, NM
108 Shorewood Drive
Menomonie, WI 54751

SECTION MANAGER'S NOTES

Richard R. Regent K9GDF
5003 South 26th Street
Milwaukee WI 53221

Thanks go to KA9RII, N19R, and N9EBP, who promptly handled their assigned six test-emergency messages for the National Communications System's 1986 Operation Night Tango.

Special appreciation goes to N9EBJ, KA9TXT, and KA9MWT for their help at the League booth in the Associated Public Safety Communications Officers (APCO) National Conference held in Milwaukee; there were 132 Hams who logged in during the three day exhibit, plus a steady stream of visitors who stopped by to chat.

W9ESM is the new Net Manager for WSBN, replacing temporary NM NOFKU.

Colorful League field organization call-sign badges are available at a small cost, check with me for information, application blank, and approval.

Do you like computers? Then listen to the informative Computer Net, 9 p.m. Thursdays on 146.91 with K9IIV in Milwaukee as NCS.

Remember to indicate your club participation when submitting an entry in the ARRL Sweepstakes this month, mark your log accordingly.

November 15th, the Milwaukee Repeater Club will hold the 6.91 Friendly Fest open at 8:00 a.m. inside the spacious Eagle's Club, 24th and Wisconsin, Milwaukee, with free parking; talk-in on 146.91 and 146.52 MHz. On-site exams start at 9 a.m. See you at the ARRL table. Exams also November 15th at Waukesha County Technical Institute, send card to WD9JKZ.

W9NW received special certificate for his training classes to help over 100 people become licensed Amateurs during the past 12 years.

Tip of the month: No one grows old by living - only by losing interest in living.

Hello to all! I am the new Net Manager for the WCWTN, having taken over from William Hayes, N89H, on Aug. 1, 1986. Bill was doing his usual great job as NM, but found that his full-time commitment as a student at UW-Stout and his part-time job after school kept him far too occupied to continue as NM. Thanks, Bill, for all your efforts to refine the WCWTN in your latest shift as NM. You did a fine job, as always! (Bill has previously been NM for WCWTN.)

My Highly-experienced and capable assistant is Diane Vorwald, WD9DNO. Di has graciously consented to by my alter ego for WCWTN purposes. She lives near River Falls, WI, and can be reached via the local repeaters or on HF.

Our data for second quarter (May, June, July) summarize as follows:

QNI	QTC	QSP	QTR
1708	95	86	1079

We have a well-disciplined yet friendly net that is run and checked into by some very fine and congenial folks. Keep up the good work everyone! You are appreciated. As always, of course, we can use more NCS and backups. Let me know if you are interested.

We have a new Ham at our house: XLY Debbie is now KA9VYX. (Very proud OM here! Any ideas on phonetics for that call?)

Best Wishes to all of you as you go back to work and school. Have great fall!

73, Tom KD9TT

A few notes from the meeting held at the WNA Picnic in Shawano on September 20, 1986.

Election of officers:

Larry Guthu, W89ICH, was re-elected Chairman.

Bruce Cadwell, N9DGL, was elected Secretary.

Art Dunham, NC9G, was elected Treasurer.

Gene Santoski, K9UTQ, was re-elected Training Officer.

James M. Caldwell, W89YPY, received the WNA award as the Top Traffic Handler for 1985.



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FOND DU LAC, WI 54935

From ARRL GATEWAY

JAS-1/FUJ1/J0-12 PBBS

With the successful launch of JAS-1/FUJ1 (J0-12) on Aug 12, 1986, the Amateur Satellite Service received new life. The digital (packet) transponder of J0-12 is scheduled for activation later this year. This system will support a Packet Radio Bulletin Board for store-and-forward messaging. Here are the basic operating instructions:

Available commands

F : List files addressed to ALL or to current user
H : Help
K : Kill file(s)
M : List file(s) to/from current user
R : Read file(s)
W : Write file

Command syntax

The general format is:

<a command letter> <space> <argument>.

At least one blank is required between <a command letter> and Command Prompt.

JAS-1 Mailbox supplies a prompt "JAS>" with no CR nor LF to indicate that the system is ready to accept a command from the user.

A user can "type ahead" commands while JAS-1 is sending messages or data to the user. JAS-1 will execute the commands in the waiting queue later.

Commands

o F

F = FILES. Shows the latest 10 files the first time it is entered during a session. Subsequent 'F' commands will list the next 10 active files (messages). A message posted to multiple users has "*" in its 'To:' destination field. See also the "M" command described below.

example:

JAS>F

o R <file#1>....., <file#7>, <file#8>

R = READ. Read file(s) (messages) specified by file number(s) you got from the 'F' command. Up to eight files can be specified.

example:

JAS>R 95,102

o W [call1, call2, call3,, call7, call8]

W = Write. Send a message (file) to others. As many as eight destination addresses can be specified. The part of the command line in brackets [call1, call2, call3...] is optional. A message without specific destination is "public", i.e. addressed to "ALL".

The JAS-1 mailbox will then prompt you to send the subject field by sending "Subj:". You can send a subject field of up to 32 characters. After receiving the "Text:" prompt, you enter the message text, ending each line with <cr> (carriage return). You terminate with either a

<cr>.<cr>
or <cr> <ctl-Z> <cr>

(ie a line containing only a period or a control-Z) to indicate end of your text.

example:

JAS>W N7FDA

o K <file#1>....., <file#7>, <file#8>

K = KILL! Delete file(s) (messages) specified by file numbers. They can be specified in a command line. A user can only delete files addressed solely to himself (ie not to multiple users) or files he posted.

o H

H = HELP! Entering H <cmd> gives additional information on that command. Entering only H will give a list of all available commands.

bo M

M = Mine. List the latest 10 files (messages) that are either to or from the current user. Additional M commands list additional active messages. This command will be useful to save channel time when the user only wants to see his messages.

From W3IWI

SMURF REPORT

PacBot (Packet Robot), developed by NSSD and periodically on the air in the Dallas, TX area (see "Robot Packet-Radio Operation" Gateway Vol. 2 Issue 14) has a new baby brother. Not yet as smart as his sibling, this new addition to the NSSD shack is called SMURF (Statistical Monitor of Utilization of Radio Frequencies). He runs on a Commodore 128 computer, attached to a Heathkit HD-4040 TNC. His sole function in life is to monitor a packet frequency and collect statistics on every transmission he hears. He keeps a directory of call signs, number of characters in the transmission, and number of retries. These are then graphically displayed on the CRT, and can also be dumped out in a formatted transmission to anyone who connects. The dump

and display show a comparison of traffic load generated by each station, as a percentage of total characters on the channel as well as an average retry count which is useful to determine which stations are having difficulty in being heard. In addition, the local CRT display shows a bar-chart representation of the percentages.

The program essentially was written one evening, and is rather simplistic. For example, it does not indicate channel idle time, which is an important parameter in the analysis of the channel's general health. It also includes digipeated packets in the retry count. This can be somewhat misleading, since it might imply that a station is having many retries, when in fact, I might just be hearing his signal in addition to its digipeated transmission.

The program could be improved by adding a differentiation between unprotocol packets and connected ones, thereby giving a figure for the beacons and other disconnected traffic. There are several other features I would like to add to the program in the future.

I hope that this brief description might spark some interest in some of the other applications that for packet radio that are well within the capability of the computerized ham.

If you would like to obtain a copy of SMURF free of charge, send a blank diskette and an SASE to:

Dave Morris, N5SD
3509 Brook Glen
Garland, TX 75042

From N5SD

QUIZBOT - QUIZ ROBOT

There is yet another "Bot" on the air in the Dallas, TX area. QuizBot, with his brothers PacBot and SMURF (see above), developed by N5SD. Many of us in the Dallas area have been trying to come up with ideas for some useful applications of packet radio other than rag chewing. We decided it would be useful to be able to work on upgrading our licenses, or even train new hams by taking informative quizzes using a packet station as the intelligent quizmaster or "QuizBot."

QuizBot runs on a Commodore 128 computer attached to a Heathkit HD-4040. The program is written in BASIC, and currently allows stations to connect and take a quiz in any of these four areas: 1) Satellites; 2) Packet Radio; 3) FCC Regulations and 4) General Theory.

Further, the quizzee can select either Novice, General, Advanced or Extra difficulty levels. QuizBot then poses a question, and presents multiple choice answer. The test-taker is informed if his answer is correct or incorrect. If the wrong answer is selected the question is returned to the pool and may be asked again later. At any time, the level of difficulty or the subject area may be changed. At the end, a score is given as a percent of correct answers.

Currently, the test questions are taken from a variety of publications, including the ARRL License Manual. It has been discussed that an option be incorporated to allow other stations to add their own questions and

answers so that QuizBot would be a growing, ever-changing experience.

Initial response has been great! Most stations welcome an opportunity to do something other than try to DX some far off DRS or try to converse with buddies at two fingers per minute when they could do the same on 2-meter voice repeaters. Many users have commented that they were sent back to their books for answers to some of the questions, and that rather than just testing their knowledge, they were actually able to learn something from the answers given to the questions they missed.

The program is really very simple. I believe that when programmers finally catch on to packet radio, we will begin to see some really fun applications for digital communications. We should not use packet radio as an alternative to normal voice communications, but rather, find those applications where only digital communications will work. Only in this way will packet survive and indeed become a popular and useful medium.

From N5SD

HUMANE TRAPS FOR SHORT ANTENNAS

(From GEARVAKf Bulletin, Spring, 1985)

Expect to see a resurgence in full size antennas if FCC yields to Sierra Club pressure to institute and enforce humane type traps for all physically shortened antennas.

Sierra Club spokesman, Crewell N. Hartless, said that although he is not an expert in electronic theory, it is his opinion that, "What are commonly called 'heterodynes' are, in reality, the agonizing sounds of hapless second and third harmonics being indiscriminately tortured by the Electron Hold Trap commonly used today."

"If we are not careful," Hartless said, "Harmonics will go the way of the Passenger Pigeon, and you know how that influenced the growth of communications in its infancy."

(Ed. note -- If you wish to support Mr. Hartless, he can be reached at his place of business. Address your letters to: Full Size Single Band Antenna Company, Division of Copper Wire Salvage Ltd., Hungry Hollow, Ohio 43078-9999-A3.)

-WB8AJC

A local radio club hired a Cannibal to give a talk on "The Spices Used By The Group". The boss-man found out and told him, "You do and we will have you for supper."

Back in the old days this fellow went into a saloon and saw a dog playing poker with a group of men. He remarked to a bystander, "That's sure a smart dog, isn't it?" To which he replied, "Not too smart. When he gets a good hand he wags his tail."

-- via ARNS



YELLOW THUNDER ARC

The September 15, 1986 meeting of the Yellow Thunder Amateur Radio Club, Inc., was called to order by the President, Art Kleefisch, W9WSS at 8:25 p.m.

The following members were present:

Art Kleefisch, W9WSS	Baraboo
Jim Decker, W89UQT	Baraboo
Peter Sweeney, WD9JIB	Reedsburg
Harry Westlund, K9EHJ	Baraboo
Harry Mayland, K9FFT	Baraboo
Bill Klinkner	Sauk City
Duane Grotophorst, KA9HKL	Fargo, ND
Steve R. Schwoegler, W89RNL	Wisconsin Dells

The minutes of the last meeting as published in the "Smoke Signals" was approved and accepted.

The Treasurers report was given as operating balance of \$221.10 and a total balance of \$298.97.

No old business was brought before the club.

New Business:

Jim Decker, W89UQT, read a letter received requesting help in communications at a short benefit walkathon. The event is scheduled for October 4, 1986, and is for the benefit of the Baraboo High School Foreign Student Club. Several members volunteered and will use 2-meter rigs.

Bill Klinkner asked if club would care to participate in an emergency drill involving the Sauk Prairie Hospital. However, the club had to decline the offer due to the short notice of the event.

The prospect of conducting a Novice class this fall was discussed. It was unanimously agreed to hold off classes until January 1987.

With no more business to discuss, the Buck Night drawing as held and the winner was George Halper, W9SUF, who was not present.

The President adjourned the meeting as 9:13 p.m.

Respectfully Submitted:
Harry Westlund, K9EHJ, Acting Secretary

YTARC BIRTHDAY:

Paul Amend KA9OBP October 10

SENTENCE SERMON

How bravely autumn paints upon the sky
The gorgeous flame of summer which is fled.

--Thomas Hood

HELP WANTED: Older Ham. Can't climb. Wants to put up 30 foot tower & beam. K9EHJ, 720 Jefferson St., Baraboo, WI 53913 or call (608) 356-6836. tnx.

FOR SALE: National NC-300 receiver and matching speaker. Mint except for minor cabinet scratches. \$125.00 will deliver anywhere in Wis. Call (715) 538-4126 after 6 p.m. Mike WD9DLM.

Eau Claire Amateur Radio Club
continued from page 12

**** FROM THE TREASURER ****

As stated in the newly revised BY-LAWS of the ECARC, the following changes in the dues structure are now in effect. For the calendar year of 1987, the PRIMARY club member will pay \$6.00, and any ASSOCIATE members in his household will pay \$3.00; the PRIMARY repeater member will pay \$10.00, and any ASSOCIATE members in his household will pay \$5.00. Club and repeater dues must be paid BEFORE January 1, 1987. After this date, a fee of \$2.00 will be charged for re-instatement. (ARTICLE V, Sec. 3 and 4). Please remember to pay your dues before January 1 in order to avoid the re-instatement fee. If paying by mail, please enclose an SASE. To pay dues, or if you have any questions, contact Lisa Harper, KA9RIL, 514 Fall Street, Eau Claire, WI 54703. 839-8516.

WNA BOOSTERS: At the meeting of the net delegates held at the WNA picnic in Shawano the renewal rate for WNA BOOSTERS was set at \$8.00 per year, including Badger State Smoke Signals, and at \$3.00 without Smoke Signals (for those already receiving it as members of other organizations). The rate of \$10.00 for new BOOSTERS remains unchanged.

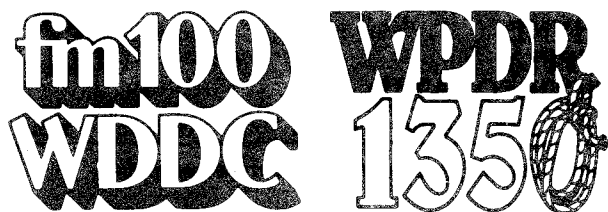
We were promised an article by a W7 on "How To Commit Suicide Safely", but something went wrong.

This brings us to the end of another issue of Badger State Smoke Signals. We hope that you have enjoyed the material we have included for your reading.

If you or your club have anything that would be of interest to others, please send it to us at the addresses shown on page 2. We are trying to provide a service to Badger State Amateurs and will welcome any bits and pieces that you have.

73 es cu next month -- de bss staff

Badger State Boosters



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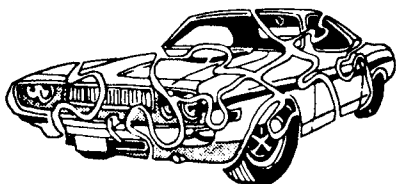
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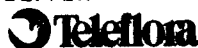
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Badger State Smoke Signals will carry current Amateur Radio news, news about YELLOW THUNDER ARC, RIVERLAND RADIO CLUB, EAU CLAIRE ARC, WNA, WAPR, ARRL, GEARVAKf (the f is silent), and other clubs and groups in Wisconsin as well. You will be kept apprised of what is happening in our hobby - locally, regionally, nationally and around the world. Among the many features will be Sentence Sermons, member birthdays, swapfest calendar, meeting notices, The Test Point, ARRL section news, humor and excellent feature articles by well-known Amateurs in Wisconsin and elsewhere. Reports will be included from ARRL Bulletins, ARRL Newsletters, and Westlink Reports, along with items of interest from exchange newsletters and the ARNS.

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